



<b>Project Name:</b> Gold King Mine	<b>Site Location:</b> Silverton, San Juan County, Colorado	<b>Project No.</b> 0001/1408-01
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<b>Photo No.</b> 1	<b>Date:</b> 08/04/2015	
<b>Direction Photo Taken:</b>  North		
<b>Description:</b> Beginning investigation into collapsed adit.		

<b>Photo No.</b> 2	<b>Date:</b> 08/04/2015	
<b>Direction Photo Taken:</b>  North		
<b>Description:</b> Excavated next to DRMS-installed culvert, water muddy from soil disturbance.		

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<p><b>Photo No.</b> <b>3</b></p>	<p><b>Date:</b> 08/04/2015</p>	
<p><b>Direction Photo Taken:</b></p> <p>Down</p>		
<p><b>Description:</b> Seepage from soil next to piping.</p>		
<p><b>Photo No.</b> <b>4</b></p>	<p><b>Date:</b> 08/04/2015</p>	
<p><b>Direction Photo Taken:</b></p> <p>Down</p>		
<p><b>Description:</b> Seepage next to the pipe is clear until entering disturbed soil.</p>		



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**Photo No.**  
**5**

**Date:**  
08/04/2015

**Direction Photo Taken:**

North

**Description:**

DRMS looking at adit excavation progress.



**Photo No.**  
**6**

**Date:**  
08/04/2015

**Direction Photo Taken:**



West

**Description:**

Water minimally murky from disturbed soil and water entering the North Fork from site.



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<b>Photo No.</b> 7	<b>Date:</b> 08/04/2015	
<b>Direction Photo Taken:</b>  South/Down		
<b>Description:</b> Hay bales installed as filter for sediment in North Fork.		
<b>Photo No.</b> 8	<b>Date:</b> 08/04/2015	
<b>Direction Photo Taken:</b>  Northwest		
<b>Description:</b> Continuing excavation at the collapsed adit, no solid bedrock found for tunnel support.		



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<p><b>Photo No.</b> <b>9</b></p>	<p><b>Date:</b> 08/04/2015</p>	
<p><b>Direction Photo Taken:</b></p> <p>Northeast</p>		
<p><b>Description:</b> First signs of adit, support pillar with lagging.</p>		
<p><b>Photo No.</b> <b>10</b></p>	<p><b>Date:</b> 08/04/2015</p>	
<p><b>Direction Photo Taken:</b></p> <p>East</p>		
<p><b>Description:</b> Water of the North Fork just upstream of Cement Creek.</p>		

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<p><b>Photo No.</b> <b>11</b></p>	<p><b>Date:</b> 08/04/2015</p>	
<p><b>Direction Photo Taken:</b></p> <p>East</p>		
<p><b>Description:</b></p> <p>Water of the North Fork just upstream of Cement Creek.</p>		
<p><b>Photo No.</b> <b>12</b></p>	<p><b>Date:</b> 08/04/2015</p>	
<p><b>Direction Photo Taken:</b></p> <p>North</p>		
<p><b>Description:</b></p> <p>Collapsed supports uncovered above anticipated adit, no sign of bedrock above the adit area.</p>		



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**Photo  
No.  
13**

**Date:**  
08/05/2015

**Direction Photo  
Taken:**

North

**Description:**

Adit conditions the morning of 8/5.



**Photo  
No.  
14**

**Date:**  
08/05/2015

**Direction Photo  
Taken:**



Northeast

**Description:**

Excavating material above the collapsed adit.



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<b>Photo No.</b> 15	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  North		
<b>Description:</b> Bedrock found above the anticipated adit.		
<b>Photo No.</b> 16	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  North		
<b>Description:</b> Cleaning out excavated material, small leak.		



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<p><b>Photo No.</b> <b>17</b></p>	<p><b>Date:</b> 08/05/2015</p>	
<p><b>Direction Photo Taken:</b></p> <p>North</p>		
<p><b>Description:</b> Small leak close up.</p>		
<p><b>Photo No.</b> <b>18</b></p>	<p><b>Date:</b> 08/05/2015</p>	
<p><b>Direction Photo Taken:</b></p> <p>North</p>		
<p><b>Description:</b> Hole starting to give way to flow.</p>		

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<b>Photo No.</b> <b>19</b>	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Northeast		
<b>Description:</b>  Adit flow increasing.		

<b>Photo No.</b> <b>20</b>	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Northeast		
<b>Description:</b>  Water flooding out at increased rate.		



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**Photo No.**  
**21**

**Date:**  
08/05/2015

**Direction Photo Taken:**

West

**Description:**

Water flowing along access road and across waste dump.



**Photo No.**  
**22**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Southeast

**Description:**

Water flowing over the edge of the waste dump and collapsing the edge.



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**Photo No.**  
**23**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Southwest

**Description:**

Exit route starting to collapse



**Photo No.**  
**24**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Southeast/Down



**Description:**

Edge of the tailings dump collapsed, suburban trapped and half submerged in center of photo.





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<b>Photo No.</b> <b>25</b>	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Northeast		
<b>Description:</b> Gold King adit exposed.		
<b>Photo No.</b> <b>26</b>	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Southeast		
<b>Description:</b> Water flow washing out the existing road. Note Suburban in left side of photo.		

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**Photo No.**  
**27**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Exposed adit, roughly 10 feet wide by 15 feet high.



**Photo No.**  
**28**

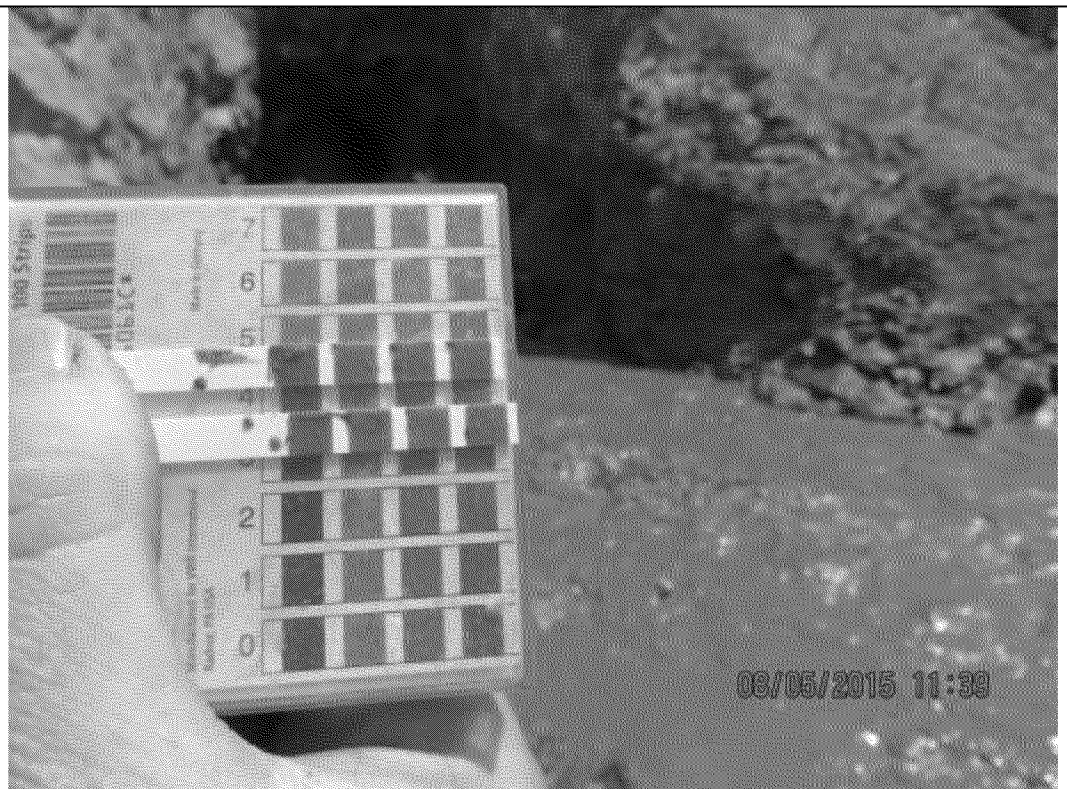
**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

pH of discharge water is approximately 4 to 4.5.





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**Photo  
No.  
29**

**Date:**  
08/05/2015

**Direction Photo  
Taken:**

Northeast

**Description:**

Excavator redirecting  
water into existing half-  
pipe channel.



**Photo  
No.  
30**

**Date:**  
08/05/2015

**Direction Photo  
Taken:**

Southeast/Down

**Description:**

Collapsed portion of  
waste dump and road  
wash out.



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**Photo No.**  
**31**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Northeast

**Description:**

Adit area after regrading.



**Photo No.**  
**32**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Exposed adit and redirected flow, flow is beginning to subside.





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**Photo No.**  
**33**

**Date:**  
08/05/2015

**Direction Photo Taken:**

East

**Description:**

Redirected flow into existing half culvert channel.



**Photo No.**  
**34**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Closeup of adit.



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**Photo No.**  
**35**

**Date:**  
08/05/2015

**Direction Photo Taken:**

West

**Description:**

Excavator beginning work to secure safe exit route for equipment, vehicles, and personnel.



**Photo No.**  
**36**

**Date:**  
08/05/2015

**Direction Photo Taken:**

East

**Description:**

Existing flow channel at maximum capacity.





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**Photo No.**  
**37**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Southwest/Down

**Description:**

Excavator progress on fixing access road to create a safe exit route.



**Photo No.**  
**38**

**Date:**  
08/05/2015

**Direction Photo Taken:**

East

**Description:**

Existing culvert flows subsiding minimally.



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**Photo No.**  
**39**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

No changes visible in adit structure or supports. Sloughing of materials inside the mine can be heard.



**Photo No.**  
**40**

**Date:**  
08/05/2015

**Direction Photo Taken:**

South/Down


**Description:**

Excavator progresses to washed out North Fork crossing.






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<b>Photo No.</b> 41	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Southwest/Down		
<b>Description:</b> Noted visitor to the site, unknown person, walked up to excavator at North Fork crossing and then back to vehicle.		

<b>Photo No.</b> 42	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Southwest/Down		
<b>Description:</b> Visitor leaving.		

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**Photo No.**  
**43**

**Date:**  
08/05/2015

**Direction Photo Taken:**

South/Down

**Description:**

Excavator continues to fix access road.  
Continued high flow is slowing progress.



**Photo No.**  
**44**

**Date:**  
08/05/2015

**Direction Photo Taken:**

East

**Description:**

Half culvert flow continues to subside.





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**Photo No.**  
**45**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Water levels lowering at adit entrance, no visible changes to structure.



**Photo No.**  
**46**

**Date:**  
08/05/2015

**Direction Photo Taken:**



West

**Description:**

Flight for life Helicopter coming up the valley to pick up a person who crashed a vehicle on Corkscrew Pass, not related to this event.



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<b>Photo No.</b> 47	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Southwest		
<b>Description:</b> Close up of Flight for Life.		
<b>Photo No.</b> 48	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Northeast		
<b>Description:</b> Flow path from adit, water flow appears to have stabilized around 1400.		



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**Photo No.**  
**49**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

pH measured at approximately 4.5.



**Photo No.**  
**50**

**Date:**  
08/05/2015

**Direction Photo Taken:**



Southwest/Down

**Description:**

DRMS arrives back on site, had visited the site around 0930 to check on progress of investigation, left approximately 1030, prior to blowout.





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<b>Photo No.</b> <b>51</b>	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  North		
<b>Description:</b> Looking up from the toe of the Gold King waste dump directly south of the adit.		
<b>Photo No.</b> <b>52</b>	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  Northeast		
<b>Description:</b> Gold King Mine tailings dump after water discharge.		



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<b>Photo No.</b> <b>53</b>	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  East		
<b>Description:</b>  Looking east across Cement Creek from County Road 10 to excavator fixing County Road 52 at North Fork crossing just south of Red and Bonita Mine.		
<b>Photo No.</b> <b>54</b>	<b>Date:</b> 08/05/2015	
<b>Direction Photo Taken:</b>  East		
<b>Description:</b>  Cement Creek crossing at Gladstone.		



## PHOTOGRAPH LOG

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